

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,415,065 B2  
APPLICATION NO. : 10/689765  
DATED : August 19, 2008  
INVENTOR(S) : Seema Sud et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS:

In Column 8, lines 34-51, please replace Claim 1 with:

1. A method for adaptive filtering a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients  $\hat{c}$ , such that  $\hat{c} = E[\hat{r}\hat{r}^H]^{-1}\hat{s}_{\text{desired}}$ , where

$E$  is the expected value operator,

$\hat{r}$  is the received signal,

$\hat{s}_{\text{desired}}$  is the modified steering vector of the desired signal, and

$\hat{s}_{\text{desired}} = \bar{s}_{\text{desired}} * \bar{h}$ , where

$\bar{h} = [h_1, h_2, \dots, h_L]$  is a discrete time estimate of the effect of multipath on the channel

and  $L$  is the delay spread of the channel for the estimate.

In Column 9, lines 28-49, please replace Claim 5 with:

5. A computer program product for adaptive filtering a signal received over a channel subjected to multipath effects, the computer program product comprising:

a computer-readable medium;

at least one program module stored on the medium, the at least one program module operative to:

determining filter coefficients  $\hat{c}$ , such that  $\hat{c} = E[\hat{r}\hat{r}^H]^{-1}\hat{s}_{\text{desired}}$ , where

$E$  is the expected value operator,

$\hat{r}$  is the received signal,

$\hat{s}_{\text{desired}}$  is the modified steering vector of the desired signal, and

$\hat{s}_{\text{desired}} = \bar{s}_{\text{desired}} * \bar{h}$ , where

$\bar{h} = [h_1, h_2, \dots, h_L]$  is a discrete time estimate of the effect of multipath on the channel and  $L$  is the delay spread of the channel for the estimate.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS (CONT'D.):

In Column 10, Line 22, please change "onto the nulspace of the correlation direction vector of" to -- onto the nullspace of the correlation direction vector of --

In Column 10, lines 30-43, please replace Claim 9 with:

9. A method for adaptive filtering in a Multistage Wiener Filter (MWF) of a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients  $\hat{c}$ , such that  $\hat{c} = E[\hat{r}\hat{r}^H]^{-1}\hat{s}_{\text{desired}}$ , where

$E$  is the expected value operator,

$\hat{r}$  is the received signal,

$\hat{s}_{\text{desired}}$  is the modified steering vector of the desired signal, and

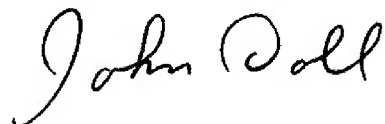
$\hat{s}_{\text{desired}} = \bar{s}^* \bar{h}$ , where

$\bar{h} = [h_1, h_2, \dots, h_L]$  is a discrete time estimate of the effect of multipath on the channel and  $L$  is the delay spread of the channel for the estimate.

This certificate supersedes the Certificate of Correction issued June 9, 2009.

Signed and Sealed this

Seventh Day of July, 2009



JOHN DOLL  
*Acting Director of the United States Patent and Trademark Office*